

List of All Chemicals

P Trichosanthes kirilowii (Cucurbitaceae)

Common name(s)

Chinese Cucumber

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Part	All	Low PPM	High PPM	StdDev	*Reference
24-ETHYL-5-ALPHA-CHOLESTA-7,22,25-TRIEN-3-BETA-OL	Seed	--	--	--	--	*
ALPHA-TRICHOSANTHIN	Root	--	--	--	--	*
ALPHA-SPINASTERYL-BETA-D-GLUCOSIDE	Root	--	--	--	--	*
LINOLENIC-ACID	Seed	--	--	--	--	*
ALPHA-SPINASTEROL-PALMITATE	Root	--	--	--	--	*
ALPHA-SPINASTEROL-6'-PALMITYL-BETA-D-GLUCOPYRANOSIDE	Root	--	--	--	--	*
DELTA-7-STIGMASTEROL-6'-PALMITYL-BETA-D-GLUCOPYRANOSIDE	Root	--	--	--	--	*
ALPHA-SPINASTEROL-6'-(Z,Z)-9,12-OCTADECADIENOYL-BETA-D-GLUCOPYRANOSIDE	Root	--	--	--	--	*
DELTA-7-STIGMASTEROL-6'-(Z,Z)-9,12-OCTADECADIENOYL-BETA-D-GLUCOPYRANOSIDE	Root	--	--	--	--	*
DELTA-7-STIGMASTEROL	Seed	--	--	--	--	*
7-STIGMASTEROL	Root	--	--	--	--	*
DELTA-7-CAMPESTEROL	Seed	--	--	--	--	*
24-ETHYLCHOLESTA-7,24(25)-DIEN-3-BETA-OL	Plant	--	--	--	--	*
COMPOUND-Q	Root	--	--	--	--	*
24-ETHYL-5ALPHA-CHOLESTA-5,25-DIEN-3-BETA-OL	Plant	--	--	--	--	*
24-ETHYL-5-ALPHA-CHOLESTA-7,25-DIEN-3-BETA-OL	Seed	--	--	--	--	*
STIGMASTER-7,22-DIEN-3BETA-OL	Plant	--	--	--	--	*
ALPHA-SPINASTEROL	Seed	--	--	--	--	*
Activities (2)						
Antiinflammatory >Phenylbutazone						
Antipyretic						
CAMPESTEROL	Seed	--	--	--	--	*
Activities (2)						
Antioxidant IC37=10 uM						
Hypocholesterolemic	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.					
SAPONINS	Root	--	--	--	--	*
Activities (5)						
Antihepatotoxic						
Antimutagenic						
Antitumor (Lung)						
Antitumor (Ovary)						
Immunomodulator						
TRICHOSANTHIN	Root	--	--	--	--	*

Activities (6)

Abortifacient
AntiAIDS
Antichoriocarcinomic
Antitumor
Feticide
Ribosome-Inactivator

Bonness, M. S., Promising new drugs from plants: poisons that heal, Herbarist, #56, 1990, 59-68

STIGMASTEROL

Root -- -- *

Activities (12)

Antihepatotoxic
Antiinflammatory Lawrence Review of Natural Products, 1995
Antinociceptive
Antiophidic 2.3 mg ipr mus Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC33=10 uM
Antiviral Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in *Artemisia annua*. Plant Science, 75: 161-165, 1991.
Artemicide Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of *Melodorum fruticosum*. Phytochemistry, 29(5): 1667-1670. 1990.
LC50=110 ppm Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic
Hypocholesterolemic Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Ovulant
Sedative

OLEIC-ACID

Seed -- -- *

Activities (18)

5-Alpha-Reductase-Inhibitor
Allergenic
Alpha-Reductase-Inhibitor
Anemiagenic
Antiallopecic
Antiandrogenic
Antiinflammatory IC50=21 uM
Antileukotriene-D4 IC50=21 uM
Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic 5 ml/man
Dermatitogenic
FLavor FEMA 1-30 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypocholesterolemic Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Insectifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Irritant Merck 11th Edition
Percutaneostimulant Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.
Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Propecic

LINOLEIC-ACID

Seed -- -- *

Activities (27)

5-Alpha-Reductase-Inhibitor

AntiMS Economic & Medicinal Plant Research, 6: 189.

Antiacne

Antialopecic

Antianaphylactic

Economic & Medicinal Plant Research, 6: 189.

Antiandrogenic

Antiarteriosclerotic

Antiarthritic

Economic & Medicinal Plant Research, 6: 189.

Anticorony

Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants*. Taylor & Frost, London. 791 pp.

Antieczemic

Economic & Medicinal Plant Research, 6: 189.

Antifibrinolytic

Economic & Medicinal Plant Research, 1: 53.

Antigranular

Antihistaminic

Economic & Medicinal Plant Research, 6: 189.

Antiinflammatory IC₅₀=31 uM

Pizzorno, J.E. and Murray, M.T. 1985. *A Textbook of Natural Medicine*. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Antileukotriene-D4 IC₅₀=31 uM

Pizzorno, J.E. and Murray, M.T. 1985. *A Textbook of Natural Medicine*. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Cancer-Preventive

Stitt, P. A. *Why George Should Eat Broccoli*. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Carcinogenic

Science News, 146: 421.

Comedolytic

Hepatoprotective

Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. *CRC Handbook of Lipids in Human Nutrition*. CRC Press. Boca Raton, FL. 233 pp.)

Hypocholesterolemic

Economic & Medicinal Plant Research, 6: 189.

Immunomodulator

Economic & Medicinal Plant Research, 6: 189.

Insectifuge

Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Metastatic

Science News, 146: 421.

Nematicide

Nigg, H.N. and Seigler, D.S., eds. 1992. *Phytochemical Resources for Medicine and Agriculture*. Plenum Press, New York. 445 pp.

Propecic

BETA-SITOSTEROL

Root

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Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomeric	
Antimutagenic 250 ug/ml	
Antiolethic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostatadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> , 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Ubiquitin	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	